

Hubert

(C) INDIVIDUAL ISOLATE: synthetic oligo
OTG5118 (E7 deleted 21 to 26)

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CATTTAATTG AGTTGTCTCT GGTTC

ATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

(A) ORGANISM: Human papillomavirus
(B) STRAIN: HPV-16
(C) INDIVIDUAL ISOLATE: synthetic oligo
OTG5377 (E6 deleted 111 to 115)

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TCTTTGCAGT GGCTTTTGAC AG

ATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

(A) LENGTH: 35 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

36

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(A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(iii) **HYPOTHETICAL: NO**

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Human papillomavirus
(B) STRAIN: HPV-16
(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG5377 (E6 deleted 111 to 115)

32

25

(A) LENGTH: 35 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(iii) **HYPOTHETICAL: NO**

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG6353 (PCR gene B7.1)

TCAGCCCCTG AATTCTGCGG ACACTGTTAT ACAGG

(2) INFORMATION FOR SEQ ID NO: 4:

(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: \cDNA

(iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG6352 (PCR gene B7.1)

(xi) SEQUENCE DESCRIPTION: SEQ\ID NO: 4:

TTGACCCTAA AGATCTGAAG CCATGGGCCA CAC

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Vaccinia virus

(B) STRAIN: Modified Ankara

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG7637 (PCR zone III)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GGGGGGGAAT TCAGTAACT TGACTAAATC TT

32

10 (2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 39 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Vaccinia virus

(B) STRAIN: Modified Ankara

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG7638 (PCR zone III)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

25 GGGGGGGGAT CCGAGCTCAC CAGCCACCGA AAGAGCAAT

39

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32 base pairs

(B) TYPE: nucleic acid

GGGGGGGGGAT CCGAGCTCAC CAGCCACCGA AAGAGCAAT

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(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

5 (iii) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Vaccinia virus

(B) STRAIN: Modified Ankara

10 (C) INDIVIDUAL ISOLATE: synthetic oligonucleotide

OTG7635 (PCR zone III)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGGGGGGGGAT CCGGAAAGTT TTATAGGTAG TT

32

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(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 30 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

20 (iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Vaccinia virus

(B) STRAIN: Modified Ankara

25 (C) INDIVIDUAL ISOLATE: synthetic oligonucleotide

OTG7636 (PCR zone III)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

GGGGGGGAAT TCTTTGTATT TACGTGAACG

30

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- (A) LENGTH: 78 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: NO

10

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG10451

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CTTATACAGG GCGTACACTT TCCCTTCTCA ATCTCTCTCG AGTTGTATTT ATTTTCATTT 60

15

TTTAAGTATA GAATAAAA

78

(2) INFORMATION FOR SEQ ID/NO: 10:

20

- (A) LENGTH: 86 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTI-SENSE: YES

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(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG10450

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

AGCTTTTAT TCTATACTTA AAAAATGAAA ATAAATACAA CTCGAGAGAG ATTGAGAAGG 60

GAAAGTGTAC GCCCTGTATA AGGTAC 86

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

5

(A) LENGTH: 39 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) **TOPOLOGY: linear**

(ii) MOLECULE TYPE: DNA (genomic)

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(iii) **HYPOTHETICAL: NO**

(iii) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

15

(A) ORGANISM: Vaccinia virus

(B) STRAIN: \ Modified Ankara

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG7665 (PCR zone II)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

ATGGTACCGA ATTCCATCTA CCAATTCATC CAACAACAT 39

(2) INFORMATION FOR SEQ ID NO: 12:

20

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 41 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: DNA (genomic)

(iii) **HYPOTHETICAL: NO**

(iii) ANTI-SENSE: YES

(vi) ORIGINAL SOURCE:

(B) STRAIN: Modified Ankara

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG7584 (PCR zone II)

5 (xi) SEQUENCE DESCRIPTION: SEO ID NO: 12:

GGCTGCAGGA TCCGAGCTCA TCATGACGTC CTCTGCAATG G

41

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) ~~HYPOTHETICAL~~: NO

15 (iii) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Vaccinia virus*

(B) STRAIN: Modified Ankara

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG7639 (PCR zone II)

(xi) SEQUENCE DESCRIPTION: \ SEQ ID NO: 13:

GGGGGGGGGAT CCTGTGAATC ATCCATTCCA CT

32

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 33 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) ANTI-SENSE: YES

(A) ORGANISM: Vaccinia virus

(B) STRAIN: Modified Ankara

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

33

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(A) LENGTH: 69\base pairs

(C) **STRANDEDNESS:** single

(D) TOPOLOGY: linear

(iii) **HYPOTHETICAL: NO**

(iii) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: ~~synthetic oligonucleotide~~
oTG10503

(xi) SEQUENCE DESCRIPTION: SEQ ID/NO: 15:

CTCAAGTCAG TGTTGAGATG ATGCTTTGAC AACTCGAGTT TATTTTCATT TTTTAAGTAT 60

69

25 (2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 77 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) **TOPOLOGY:** linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

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(iii) **ANTI-SENSE: YES**

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: synthetic oligonucleotide
oTG10502

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

10 AGCTTTTAT TCTATACTTA AAAAATGAA ATAAACTCGA GTTGTCAAAG CATCATCTCA 60

ACACTGACTT GAGGTAC 77